TENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/220 (April 2002) *

ANTHONY S. VOLPE P("I" VOLPE AND KOENIG, P.C. SUITE 400, ONE PENN CENTER 1617 JOHN F. KENNEDY BOULEVARD NOTIFICATION OF TRANSMITTAL OF PHILADELPHIA, PENNSYLVANIA 19103 THE INTERNATIONAL SEARCH REPORT RECEIVED OR THE DECLARATION AM/PM (PCT Rule 44.1) DEC 17 2002 Date of Mailing 12 DEC 2002 (day/month/year) VOLPE & KOENIG. P.O. Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 1-2-0205WO International application No. International filing date (day/month/year) PCT/US02/26533 21 AUGUST 2002 Applicant INTERDIGITAL TECHNOLOGY CORPORATION The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the presecribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site. Name and mailing address of the ISA/US Authorized officer Commissioner of Patents and Trademarks RON ABELSON Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230 Telephone No.

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1-2-0203WO	FOR FURTHER ACTION	see Notification of (Form PCT/ISA/22	Transmittal of International Search Report 20) as well as, where applicable, item 5 below.
International application No. PCT/US02/26533	International filing date	(day/month/year)	(Earliest) Priority Date (day/month/year) 24 AUGUST 2001
Applicant INTERDIGITAL TECHNOLOGY C	ORPORATION		
This international search report has bee according to Article 18. A copy is bein This international search report consis X It is also accompanied by a companied by a comp	g transmitted to the Intersets of a total of $\frac{2}{2}$ sheets	national Bureau. s.	thority and is transmitted to the applicant
language in which it was filed, the international search was Authority (Rule 23.1(b)). b. With regard to any nucleotide was carried out on the basis of contained in the internation filed together with the inter furnished subsequently to th the statement that the subsetthe	unless otherwise indicated a carried out on the basis of and/or amino acid sequence the sequence listing: all application in written for its Authority in written form its Authority in computer requently furnished written tion recorded in computer returns accorded in computer a	under this item. If a translation of the ine disclosed in the inerm. Inputer readable form. Is adable form. Is adable form is idented adable form is idented.	pasis of the international application in the international application furnished to this international application, the international search international application furnished to this international application, the international search international application furnished to this international application furnished to this international application furnished to this international application furnished to the international application furnished to th
5. With regard to the abstract, The text is approved as submit the text has been established Box III. The applicant may, a search report, submit common as a The few search report.	, according to Rule 38.2(b) vithin one month from the ents to this Authority.	date of mailing of th	as it appears in his international
6. The figure of the drawings to be pu as suggested by the applican because the applicant failed X because this figure better ch	t. 50 suggest a figure.	s Figure No. 1	None of the figures.

INTERNATIONAL SEARCH REPORT

Form PCT/ISA/210 (second sheet) (July 1998)*

International application No. PCT/US02/26533

A. CLAS	A. CLASSIFICATION OF SUBJECT MATTER					
IPC(7) :H04B 7/216						
US CL: 370/335, 342 According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum d	ocumentation searched (classification system followe	d by classification symbols)				
U.S. :	370/335, 342					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)						
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
		appropriate of the relevant persons	Relevant to claim No.			
Category*	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.			
Y	US 5,351,016 A (DENT) 27 SEPTEMI 12 LINE 30 - COL. 21 LINE 37.	1, 2, 5, 7, 8, 11, 13, 14, 17				
Y	US 4,912,705 A (PANETH et al) 27 M 48 - 67.	1, 2, 5, 7, 8, 11, 13, 14, 17				
Y	US 2002/0064167 A1 (KHAN et al.) [0010]) 30 MAY 2002, paragraph	6,12,18			
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Furth	er documents are listed in the continuation of Box	C. See patent family annex.				
	cial categories of cited documents:	"I" later document published after the inte	ication but cited to understand			
to b	be of particular relevance	"X" document of particular relevance; the				
	dier document published on or after the international filing date nument which may throw doubts on priority claim(a) or which is	considered novel or cannot be consider when the document is taken alone				
cite	oial reason (as specified)	"Y" document of particular relevance; the				
"O" doc me:	ument referring to an oral disclosure, use, exhibition or other	considered to involve an inventive step with one or more other such docum obvious to a person skilled in the art				
	ument published prior to the international filing date but later in the priority date claimed	"&" document member of the same patent family				
	Date of the actual completion of the international search Date of mailing of the international search report					
13 SEPTE	EMBER 2002	12 DEC 2002				
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (708) 305-3230 Authorized officer RON ABELSON Telephone No. (708) 306/5622			nd. Ward			

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY ANTHONY S. VOLPE PCT VOLPE AND KOENIG, P.C. SUITE 400, ONE PENN CENTER 1617 JOHN F. KENNEDY BOULEVARD NOTIFICATION OF TRANSMITTAL OF PHILADELPHIA, PENNSYLVANIA 19103 THE INTERNATIONAL SEARCH REPORT RECEIVED OR THE DECLARATION AM/PM (PCT Rule 44.1) DEC 17 2002 Date of Mailing 12 DEC 2002 (day/month/year) VOLPE & KOENIG, P.C. Applicant's or agent's file reference FOR FURTHER ACTION 1-2-0203WO See paragraphs 1 and 4 below International application No. International filing date (day/month/year) PCT/US02/26533 21 AUGUST 2002 INTERDIGITAL TECHNOLOGY CORPORATION The applicant is hereby notified that the international search report has been established and is transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): The time limit for filing such amendments is normally two months from the date of transmittal of the international search report. Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. 4. Reminders Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication. Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the presecribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site. Name and mailing address of the ISA/US Authorized officer Commissioner of Patents and Trademarks Box PCT RON ABELSON Washington, D.C. 20231 Facsimile No. (703) 305-3230

Telephone No.

(See notes on accompanying sheet)

Form PCT/ISA/220 (April 2002) *

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1-2-0203WO	FOR FURTHER se ACTION (F				
International application No. PCT/US02/26533	International filing date (a	day/month/year)	(Earliest) Priority Date (day/month/year) 24 AUGUST 2001		
Applicant INTERDIGITAL TECHNOLOGY C	ORPORATION				
This international search report has bee according to Article 18. A copy is bein This international search report consist X It is also accompanied by a c	g transmitted to the Internates of a total of $\frac{2}{2}$ sheets.	tional Bureau.	hority and is transmitted to the applicant		
language in which it was filed, the international search was Authority (Rule 23.1(b)). b. With regard to any nucleotide: was carried out on the basis of contained in the internation filed together with the inter furnished subsequently to the the statement that the subsetthe	unless otherwise indicated un carried out on the basis of a und/or amino acid sequence the sequence listing: al application in written formational application in composes Authority in written form. So Authority in computer reaction recorded in computer reaction recorded in computer reactions are considered in computer reactions. See Box II.	der this item. translation of the disclosed in the info. uter readable form. equence listing do lable form is identification.	asis of the international application in the international application furnished to this ternational application, the international search m.		
5. With regard to the abstract, X the text is approved as submodule the text has been established Box III. The applicant may, we search report, submit commends. 6. The figure of the drawings to be putter as suggested by the applicant because the applicant failed to	, according to Rule 38.2(b), by thin one month from the dants to this Authority. blished with the abstract is t.	te of mailing of th	as it appears in is international None of the figures.		
X because this figure better characterizes the invention.					

Form PCT/ISA/210 (first sheet) (July 1998)*

INTERNATIONAL SEARCH REPORT

Form PCT/ISA/210 (second sheet) (July 1998)*

International application No. PCT/US02/26533

A. CLA	SCIEICATION OF CURIED TO					
A. CLASSIFICATION OF SUBJECT MATTER IPC(7) :H04B 7/216						
. , ,	: 370/335, 342					
	to International Patent Classification (IPC) or to bo	th national classification and IPC				
	LDS SEARCHED					
Minimum d	documentation searched (classification system follow	red by classification symbols)				
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	3.3.3.3.4					
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searched						
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C. DOC	CUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.			
Y	US 5,351,016 A (DENT) 27 SEPTEM	BER 1994 ABSTACT COL	1, 2, 5, 7, 8, 11,			
İ	12 LINE 30 - COL. 21 LINE 37.	.52.(1), (1.5511,01., 00	13, 14, 17			
ł		<u></u>	15, 14, 17			
Y	US 4,912,705 A (PANETH et al) 27 N	ARCH 1990 COL 24 LINE	1, 2, 5, 7, 8, 11,			
	48 - 67.	attent 1990, COL. 24 EINE	13, 14, 17			
			15, 14, 17			
Y	US 2002/0064167 A1 (KHAN et al.) 30 MAY 2002, paragraph	6,12,18			
	[0010]	, oo mari 2002, paragraph	0,12,10			
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Further documents are listed in the continuation of Box C. See patent family annex.						
-	ocial categories of cited documents:	"T" later document published after the inte- date and not in conflict with the appli	mational filing date or priority ication but cited to understand			
	cument defining the general state of the art which is not considered be of particular relevance	the principle or theory underlying the				
"E" ear	lier document published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be consider	claimed invention cannot be			
"L" doc	nument which may throw doubts on priority claim(s) or which is do to establish the publication date of another citation or other	when the document is taken alone				
бро	cial reason (as specified)	"Y" document of particular relevance; the considered to involve an inventive step w	claimed invention cannot be			
"O" doc	nument referring to an oral disclosure, use, exhibition or other	with one or more other such docume obvious to a person skilled in the art				
"P" doc	ument published prior to the international filing date but later	"&" document member of the same patent i	lamily			
Date of the actual completion of the international search Date of mailing of the international search report			rch report			
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Facsimile No	o. (703) 305-3230	Telephone No. (708) 306 5622	· / •			